A Happy and Prosperous NEW YEAR Efforts Being Made to American Variety, Will Promise of Success Government Experiment tillners—Work of Front for and Prevention of Sugar Beet at its Best Industry continues antief Secretary of Agricultum findustry in making improve the conditions of the seed, encouraging the seed, encouraging the seed, secondary in the secondary in th

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Efforts Being Made to Develop an American Variety, With Excellent Promise of Success-Important Government Experiments With Fertillzers-Work of Floding Remedies for and Prevention of Diseases Sugar Beet at Its Best in Utah

The development of the sugar beet Industry continues satisfactorily, says Secretary of Agriculture Wilson, in his annual report. The bureau of plant industry is making an effort to improve the conditions affecting this crop in the matter of providing better seed, encouraging the use of fer-tilizers where fertilizers are likely to do good, studying the diseases with a view to discovering remedies for them, securing improvement in the matter of seed by the production of beets which will give seed of a sin-

A little more than two years ago the department again took up the work of establishing sugar beet seed cul-ture in the United States, and since dustry is already assuming commer-

state \$0,000 pounds of seed were pro-

As to the quality, American-grown seed has produced high as 24 per cent of sugar, while the average percentage in all beets tested from American-grown seed during 1302 was 15.8 per cent. The average percentage of sugar in all beets grown in the United States, as beets grown in the United States, as shown by the factory returns of their total extraction, is a little over 11 per cent. It will be remembered, too, and the thousands of women straggling into Caney—as markable. I suppose both and Russians are trying to fit of only two years of careful selec-tion. The work of astablishing a pedgreed strain is slow, and years are required for the completion of such an undertaking; but the work is so for along that its success may be con-

Two years ago the department im-ported all the sugar beet seed that Two years ago the department im-ported all the sugar beet seed that has tilled it in peace and with no was distributed for experimental pur-harm to anybody for thousands of poses, while during the 1904 season 14,000 pounds of American-grown seed were distributed by the department to selected farmers for testing in comparison with imported seed

furnished to them by the factories.

The reports on the stand secured, which is generally indicative of the yield, show that the American seed gave almost without exception a gave almost without exception a greater growth than the imported seed. In a number of instances those portions of fields which were sown with factory seed gave such a poor stand that they had either to be resown or abandoned while the portio sown with American-grown seed gave good stands and in no case required replanting. The factories during 1904 bought 34,500 pounds of Americangrown seed, and a number of these factories are now negotiating with the American growers for contracts to supply the seed they need.

Special Fertilizer Work.

In the fertilizer work efforts have been made to determine the effect of different fertilizers on tennage and sugar contents, and also their influce on various diseases

Investigations along this line were undertaken in six sugar beet states. seven brands of complete fertilizers being used, and in addition some sepprate experiments with the various ingredients used by themselves were made. The preliminary reports which have been received indicate that in many cases the effect of the fertiliz-ers could be seen from the time of the germination of the beets. In a few cases the lines separating the fer-tilized from the unfertilized plots could be seen even at the beginning of the harvest.

A recent report from one of the ex perimenters states that in his work with nitrate of sods the beets from the untreated plots were worth \$5.20 per ton and yielded \$54.25 worth of bects per acre. On the adjacent plot, where 200 pounds of nitrate of soda were applied at the time of planting. the bests were worth \$5.20 per ton and yielded \$74.57. a difference of \$29.22 per acre in favor of the ferti-mation. The untreated bests tested 14.1 per cent sugar, while those fer-tilized tested 14.4 per cent.

Problems of Epidemics.

The serious epidemies which have affected the sugar best, like the leaf spot disease of the east and the curiy top of the west, have been investi-sated. Experiments on a large scale in different sections of the eastern beet area have shown that the leaf spot may be readily controlled by the application of Bordeaux mixture. This remedy has now come into gen-

In my last report attention was called to the efforts being made in the matter of developing sugar best sends with single germs. The single-germ seed would do much to diminish the labor of thisning. The bureau work in this field has been very satisfactory. Although the work

en running for only two seasons, cided progress has been made, and the single-germ seeds that have been selected have been found much more vigorous than the multiple-germ balls.

The selected strains grown this year show a decided tendency to the pro-duction of a larger number of single gorm balls than the parent beet from which the selection was started, the average being about 20 per cent. In one case, over 2000 single-seed balls were found on one beet. The work this year has been conducted in Utah and other sections where the sugar beet is at its best, and indicates that ultimately we shall in all probability be successful in the production of a beet having the desirable quality of producing a ball with only a single germ, that will substantially save hand thinning and avoid much ex-pense in growing.

LOOKS LIKE HOME.

Manchuria Reminds Correspondent of Montana's Rolling Hills—Rich Soll and Good Climate. This is distinctly a human country

a country of cornfields, beans potatoes, horses, cattle, sheep, dogs potatoes, norses, cattie, sneep, ogs, goats and no freaks in tree-trunk, branch or foliage. But I can't get over seeing a Chinaman in a corn-field. It is always a shock. He doesn't seem to have any right there -somehow nobody does except a white man or a darkey. There are tumble-bugs in the dusty road and that time work has been going on in four representative sections of this country. Strains of pedigreed seed are being established in New York. Michigan, Utah and Washington state, while in Utah and Washington state, while in Utah and Washington the in-thing in the world but the "snake doctors at the dragon-flies" why, they are nothing in the world but the "snake doctors at the dragon state." tors" that I used to throw stones at when I was a boy in the Bluegrass. In California also seed is being pro- The mountains are treeless and volcanic, but it's a human country, and I don't feel as far from home as I duced in 1904, in Utah about 32,009 did in Japan. Brill says it all looks pounds and in California about 50.
900 pounds—a total of 162,000 Ohio cornfields, only the corn is milpounds. As rapidly as the department can bring home to all the sugar beet factories the conviction that beet factories the conviction that American-grown seed is as good and serves almost every purpose of bam-often better than the imported, these quantities will be increased, and it is can ride for hours between two solid a question of but a few years when the entire 5,000,000 pounds used in the United States will be produced at ing villages to plant and fill, or even home.

High Quality American-Grown Seed.

As to the quality American grown

As to the quality American grown no burned house, or robbed field or even a castoff bit of the soldier's equipment to show that an army had ever passed that way. One fact only spoke significantly of war. No wo-man—except a child or a crone—was This struck me, when I recalled the trail of the Massachusetts volunteers from Siboney to Santiago

> years-I can't for the life of me see Young Man—Say, you er re-member the engagement ring 1 bought of you yesterday? Jeweler-Yes. What's wrong with

and the thousands of women refugees

and Russians are trying to keep the

good will of the Chinaman, as well as of the rest of the world. I don't

wonder that the Russlans are fight ing for that land, nor shall I wonder

should the Japanese, if they win, try to keep it. But how it should belong

I suppose both Japanes

Young Man-Nothing, but there's something wrong with the girl. Would you mind taking it back and give me collar buttons for it?

Goodley-Why don't you go to

Beggar-I am workin', I'm a coilector o' rare coins.
Goodley—But a nickel is not a rare

Beggar-It is to me



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